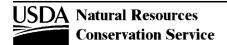
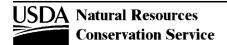
Hampden County, Massachusetts, Central Part

[This report lists only those map unit components that are rated as hydric. Dashes (---) in any column indicate that the data were not included in the database. Definitions of hydric criteria codes are included at the end of the report]

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
2A: Pootatuck fine sandy loam, 0 to 3 percent slopes	Limerick	10	Alluvial flats	Yes	2
	Rumney	5	Alluvial flats	Yes	2
6A: Scarboro mucky fine sandy loam, 0 to 3 percent slopes	Scarboro	80	Depressions, Drainageways	Yes	2, 3
	Swansea	10	Swamps	Yes	1, 3
	Walpole	5	Depressions	Yes	2
	Wareham	5	Depressions	Yes	2
8A:					
Limerick silt loam, 0 to 3 percent slopes	Limerick	85	Alluvial flats	Yes	2
	Saco Variant	5	Alluvial flats	Yes	2
14A: Scitico silt loam, 0 to 3 percent slopes	Scitico	85	Depressions	Yes	2
	Scantic Variant	10	Depressions	Yes	2
18A: Rumney fine sandy loam, 0 to 3 percent slopes	Rumney	85	Alluvial flats	Yes	2
•	Limerick	5	Alluvial flats	Yes	2
	Saco Variant	5	Alluvial flats	Yes	2
30A: Raynham silt loam, 0 to 3 percent slopes	Raynham	80	Depressions	Yes	2
• • •	Scantic Variant	10	Depressions	Yes	2
31A: Walpole sandy loam, 0 to 3 percent slopes	Walpole	80	Depressions	Yes	2
	Scarboro	10	Outwash terraces	Yes	2, 3



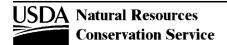
ham				
ilairi	80	Terraces	Yes	2
oro	10	Terraces	Yes	2
sea	5	Bogs	Yes	1
sea	80	Swamps	Yes	1, 3
own	10	Swamps	Yes	1, 3
oro	5	Depressions, Drainageways	Yes	2, 3
nan	5	Depressions, Drainageways	Yes	2, 3
own	85	Depressions, Depressions	Yes	1, 3
oro	5	Depressions, Drainageways	Yes	2, 3
sea	5	Depressions, Depressions	Yes	1, 3
nan	5	Depressions, Drainageways	Yes	2, 3
own	55	Swamps	Yes	1, 3
sea	40	Swamps	Yes	1, 3
nan	3	Depressions	Yes	2, 3
0	2	Depressions	Yes	2
bury	80	Depressions	Yes	2
nan	10	Depressions	Yes	2
	nam poro sea sea pown poro nan pown poro sea nan pown sea nan pown sea nan pown sea nan	soro 10 sea 5 sea 80 sown 10 soro 5 nan 5 sea 5 nan 5 sea 40 nan 3 sea 40 nan 3 sebury 80	sea 5 Bogs sea 80 Swamps own 10 Swamps ooro 5 Depressions, Drainageways own 85 Depressions, Drainageways ooro 5 Depressions, Drainageways sea 5 Depressions, Drainageways sea 5 Depressions, Drainageways sea 5 Depressions, Drainageways sea 6 Depressions, Drainageways sea 7 Depressions, Drainageways own 55 Swamps sea 40 Swamps nan 3 Depressions o 2 Depressions	sea 5 Bogs Yes sea 80 Swamps Yes own 10 Swamps Yes oro 5 Depressions, Drainageways Yes own 85 Depressions, Drainageways Yes oro 5 Depressions, Drainageways Yes sea 5 Depressions, Drainageways Yes own 55 Swamps Yes own 55 Swamps Yes own 55 Swamps Yes own 3 Depressions Yes



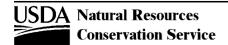
Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
71A:	Did d	0.5		V	
Ridgebury sandy loam, 0 to 3 percent slopes, extremely stony	Ridgebury	85	Depressions	Yes	2
	Whitman	10	Depressions	Yes	2
71B:					
Ridgebury sandy loam, 3 to 8 percent slopes, extremely stony	Ridgebury	85	Depressions	Yes	2
	Whitman	10	Depressions	Yes	2
73A:					
Whitman loam, 0 to 3 percent slopes, extremely stony	Whitman	85	Depressions	Yes	2
	Swansea	10	Bogs	Yes	1
	Ridgebury	5	Depressions	Yes	2
95A:					
Podunk fine sandy loam, 0 to 3 percent slopes	Rumney	10	Alluvial flats	Yes	2
	Saco Variant	5	Alluvial flats	Yes	2
98A:					
Winooski silt loam, 0 to 3 percent slopes	Limerick	10	Alluvial flats	Yes	2
103B:					
Charlton-Hollis-Rock outcrop complex, 3 to 8 percent slopes	Ridgebury	10	Depressions	Yes	2
103C:					
Charlton-Hollis-Rock outcrop complex, 8 to 15 percent slopes	Ridgebury	10	Depressions	Yes	2
221B:					
Eldridge loamy sand, 0 to 6 percent slopes	Enosburg	10	Terraces	Yes	2
225B:					
Belgrade silt loam, 0 to 8 percent slopes	Raynham	10	Depressions	Yes	2
230B:					
Unadilla very fine sandy loam, 3 to 8 percent slopes	Raynham	10	Depressions	Yes	2
250A:					
Pollux fine sandy loam, 0 to 3 percent slopes	Enosburg	10	Terraces	Yes	2
250B:					
Pollux fine sandy loam 3 to 8 percent slopes	Enosburg	5	Terraces	Yes	2



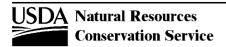
Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
50C:	Freehous	-	Tomoson	V	0
Pollux fine sandy loam, 8 to 15 percent slopes	Enosburg	5	Terraces	Yes	2
56A: Deerfield loamy fine sand, 0 to 3 percent slopes	Wareham	10	Terraces	Yes	2
58B:					
Amostown fine sandy loam, 0 to 6 percent slopes	Enosburg	10	Terraces	Yes	2
60B:					
Sudbury fine sandy loam, 0 to 8 percent slopes	Scarboro	5	Terraces	Yes	2
	Wareham	5	Terraces	Yes	2
75A:					
Agawam fine sandy loam, 0 to 3 percent slopes	Walpole	3	Depressions	Yes	2
00B:					
Montauk fine sandy loam, 3 to 8 percent slopes	Ridgebury	4	Depressions	Yes	2
01B:					
Montauk fine sandy loam, 0 to 8 percent slopes, very stony	Ridgebury, very stony	4	Depressions	Yes	2
02B:					
Montauk fine sandy loam, 0 to 8 percent slopes, extremely stony	Ridgebury, extremely stony	2	Depressions	Yes	2
02C:					
Montauk fine sandy loam, 8 to 15 percent slopes, extremely stony	Ridgebury, extremely stony	2	Depressions	Yes	2
05B:					
Paxton fine sandy loam, 3 to 8 percent slopes	Ridgebury	6	Depressions	Yes	2
05C:					
Paxton fine sandy loam, 8 to 15 percent slopes	Ridgebury	2	Depressions	Yes	2
06B:					
Paxton fine sandy loam, 0 to 8 percent slopes, very stony	Ridgebury, very stony	4	Depressions	Yes	2
06C:					
Paxton fine sandy loam, 8 to 15 percent slopes, very stony	Ridgebury, very stony	2	Depressions	Yes	2
06D:					
Paxton fine sandy loam, 15 to 25 percent slopes, very stony	Ridgebury, very stony	1	Depressions	Yes	2



Map symbol and	0	Percent	l andfan	Hydric	Hydric
map unit name	Component	of map unit	Landform	rating	criteria
307B:					
Paxton fine sandy loam, 0 to 8 percent slopes, extremely stony	Ridgebury, extremely stony	4	Depressions	Yes	2
	Whitman, extremely stony	1	Depressions	Yes	2, 3
307C:					
Paxton fine sandy loam, 8 to 15 percent slopes, extremely stony	Ridgebury, extremely stony	1	Depressions	Yes	2
307D:					
Paxton fine sandy loam, 15 to 25 percent slopes, extremely stony	Ridgebury, extremely stony	1	Depressions	Yes	2
310A:					
Woodbridge fine sandy loam, 0 to 3 percent slopes	Ridgebury	6	Depressions	Yes	2
	Whitman, extremely stony	1	Depressions	Yes	2
310B:					
Woodbridge fine sandy loam, 3 to 8 percent slopes	Ridgebury	8	Depressions	Yes	2
311B:					
Woodbridge fine sandy loam, 0 to 8 percent slopes, very stony	Ridgebury, very stony	8	Depressions	Yes	2
311C:					
Woodbridge fine sandy loam, 8 to 15 percent slopes, very stony	Ridgebury, very stony	4	Depressions	Yes	2
	Whitman, very stony	1	Depressions	Yes	2
312B:					
Woodbridge fine sandy loam, 0 to 8 percent slopes, extremely stony	Ridgebury, extremely stony	8	Depressions	Yes	2
312C:					
Woodbridge fine sandy loam, 8 to 15 percent slopes, extremely stony	Ridgebury, extremely stony	1	Depressions	Yes	2
315B:					
Scituate fine sandy loam, 3 to 8 percent slopes	Ridgebury	10	Depressions	Yes	2
317B:					
Scituate fine sandy loam, 3 to 8 percent slopes, extremely stony	Ridgebury	5	Depressions	Yes	2
340B:					
Broadbrook gravelly silt loam, 3 to 8 percent slopes	Ridgebury	5	Depressions	Yes	2
340C:					
Broadbrook gravelly silt loam, 8 to 15 percent slopes	Ridgebury	5	Depressions	Yes	2



Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
341B:	Pi lankara	40	Dannarian	V	0
Broadbrook silt loam, 3 to 8 percent slopes, very stony	Ridgebury	10	Depressions	Yes	2
341C:					
Broadbrook silt loam, 8 to 15 percent slopes, very stony	Ridgebury	5	Depressions	Yes	2
388A:					
Wilbraham silt loam, 0 to 3 percent slopes, extremely stony	Wilbraham	90	Depressions	Yes	2
388B:					
Wilbraham silt loam, 3 to 8 percent slopes, extremely stony	Wilbraham	90	Depressions	Yes	2
390B:					
Ludlow loam, 3 to 8 percent slopes	Wilbraham	5	Depressions	Yes	2
391B:					
Ludlow loam, 0 to 8 percent slopes, very stony	Wilbraham	5	Depressions	Yes	2
393B:					
Ludlow loam, 0 to 8 percent slopes, extremely stony	Wilbraham	5	Depressions	Yes	2
393C:					
Ludlow loam, 8 to 15 percent slopes, extremely stony	Wilbraham	5	Depressions	Yes	2
397B:					
Wethersfield fine sandy loam, 3 to 8 percent slopes	Wilbraham	5	Depressions	Yes	2
397C:					
Wethersfield fine sandy loam, 8 to 15 percent slopes	Wilbraham	5	Depressions	Yes	2
398B:					
Wethersfield fine sandy loam, 3 to 8 percent slopes, very stony	Wilbraham	5	Depressions	Yes	2
398C:					
Wethersfield fine sandy loam, 8 to 15 percent slopes, very stony	Wilbraham	5	Depressions	Yes	2
398D:					
Wethersfield fine sandy loam, 15 to 25 percent slopes, very stony	Wilbraham	5	Depressions	Yes	2
399B:					
Wethersfield fine sandy loam, 3 to 8 percent slopes, extremely stony	Wilbraham	5	Depressions	Yes	2
399C:					
Wethersfield fine sandy loam, 8 to 15 percent slopes, extremely stony	Wilbraham	5	Depressions	Yes	2



percent slopes, extremely stony 401B:	Vilbraham Ridgebury	5	Depressions	Yes	2
percent slopes, extremely stony 401B: Brookfield fine sandy loam, 3 to 8	Ridgebury		Depressions	Yes	2
Brookfield fine sandy loam, 3 to 8		5			
		5			
			Depressions	Yes	2
401C:					
Brookfield fine sandy loam, 8 to 15 R percent slopes, extremely stony	Ridgebury	5	Depressions	Yes	2
407B:					
Charlton fine sandy loam, 3 to 8 Percent slopes, extremely stony	Ridgebury	5	Depressions	Yes	2
407C:					
Charlton fine sandy loam, 8 to 15 R percent slopes, extremely stony	Ridgebury	5	Depressions	Yes	2
442B:					
Gloucester sandy loam, 3 to 8 percent R slopes, extremely stony	Ridgebury	10	Depressions	Yes	2
711C:					
Charlton-Rock outcrop-Hollis complex, R 3 to 15 percent slopes	Ridgebury	5	Depressions	Yes	2
718A:					
Saco Variant silt loam, 0 to 3 percent S slopes	Saco Variant	85	Alluvial flats	Yes	2
S	Swansea	10	Bogs	Yes	1
Li	imerick	5	Alluvial flats	Yes	2
726B:					
Broadbrook silt loam, 3 to 8 percent R slopes, extremely stony	Ridgebury	10	Depressions	Yes	2
726C:					
Broadbrook silt loam, 8 to 15 percent R slopes, extremely stony	Ridgebury	5	Depressions	Yes	2
728C:					
Brookfield-Rock outcrop-Brimfield R complex, 3 to 15 percent slopes	Ridgebury	5	Depressions	Yes	2
728D:					
Brookfield-Rock outcrop-Brimfield Rocmplex, 15 to 25 percent slopes	Ridgebury	5	Depressions	Yes	2
729B:					
Buxton Variant silt loam, 0 to 8 percent S slopes	Scantic Variant	5	Depressions	Yes	2



Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
731A:					
Enosburg loamy sand, 0 to 3 percent slopes	Enosburg	80	Terraces	Yes	2
	Raynham	5	Depressions	Yes	2
	Wareham	5	Terraces	Yes	2
736A:					
Scantic Variant silt loam, 0 to 3 percent slopes	Scantic Variant	80	Depressions	Yes	2
'	Raynham	10	Depressions	Yes	2
738B:					
Urban land-Hadley-Winooski association, 0 to 8 percent slopes	Limerick	10	Alluvial flats	Yes	2
739C: Urban land-Hinckley-Windsor	Wareham	2	Depressions	Yes	2
association, 0 to 15 percent slopes	warenam	2	Depressions	165	2
740D:					
Urban land-Wethersfield-Paxton association, 3 to 25 percent slopes	Wilbraham	2	Depressions	Yes	2

This table lists the map unit components that are rated as hydric soils in the survey area. This list can help in planning land uses; however, onsite investigation is recommended to determine the hydric soils on a specific site (National Research Council, 1995; Hurt and others, 2002).

The three essential characteristics of wetlands are hydrophytic vegetation, hydric soils, and wetland hydrology (Cowardin and others, 1979; U.S. Army Corps of Engineers, 1987; National Research Council, 1995; Tiner, 1985). Criteria for all of the characteristics must be met for areas to be identified as wetlands. Undrained hydric soils that have natural vegetation should support a dominant population of ecological wetland plant species. Hydric soils that have been converted to other uses should be capable of being restored to wetlands.

Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register, 1994). These soils, under natural conditions, are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.

The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or nonhydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (Federal Register, 2002). These criteria are used to identify map unit components that normally are associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (Soil Survey Staff, 1999) and "Keys to Soil Taxonomy" (Soil Survey Staff, 2003) and in the "Soil Survey Manual" (Soil Survey Division Staff, 1993).

If soils are wet enough for a long enough period of time to be considered hydric, they should exhibit certain properties that can be easily observed in the field. These visible properties are indicators of hydric soils. The indicators used to make onsite determinations of hydric soils are specified in "Field Indicators of Hydric Soils in the United States" (Hurt and others, 2002).

Hydric soils are identified by examining and describing the soil to a depth of about 20 inches. This depth may be greater if determination of an appropriate indicator so requires. It is always recommended that soils be excavated and described to the depth necessary for an understanding of the redoximorphic processes. Then, using the completed soil descriptions, soil scientists can compare the soil features required by each indicator and specify which indicators have been matched with the conditions observed in the soil. The soil can be identified as a hydric soil if at least one of the approved indicators is present.

Map units that are dominantly made up of hydric soils may have small areas, or inclusions, of nonhydric soils in the higher positions on the landform, and map units dominantly made up of nonhydric soils may have inclusions of hydric soils in the lower positions on the landform.

The criteria for hydric soils are represented by codes in the table (for example, 2B3). Definitions for the codes are as follows:

- 1. All Histels except for Folistels, and Histosols except for Folists.
- 2. Soils in Aquic suborders, great groups, or subgroups, Albolls suborder, Historthels great group, Histoturbels great group, Pachic subgroups, or Cumulic subgroups that:
 - A. are somewhat poorly drained and have a water table at the surface (0.0 feet) during the growing season, or
 - B. are poorly drained or very poorly drained and have either:
 - a water table at the surface (0.0 feet) during the growing season if textures are coarse sand, sand, or fine sand in all layers within a depth of 20 inches, or
 - 2) a water table at a depth of 0.5 foot or less during the growing season if
 - permeability is equal to or greater than 6.0 in/hr in all layers within a depth of 20 inches, or
 - 3) a water table at a depth of 1.0 foot or less during the growing season if permeability is less than 6.0 in/hr in any layer within a depth of 20 inches.
- 3. Soils that are frequently ponded for long or very long duration during the growing season.
- 4. Soils that are frequently flooded for long or very long duration during the growing season.

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